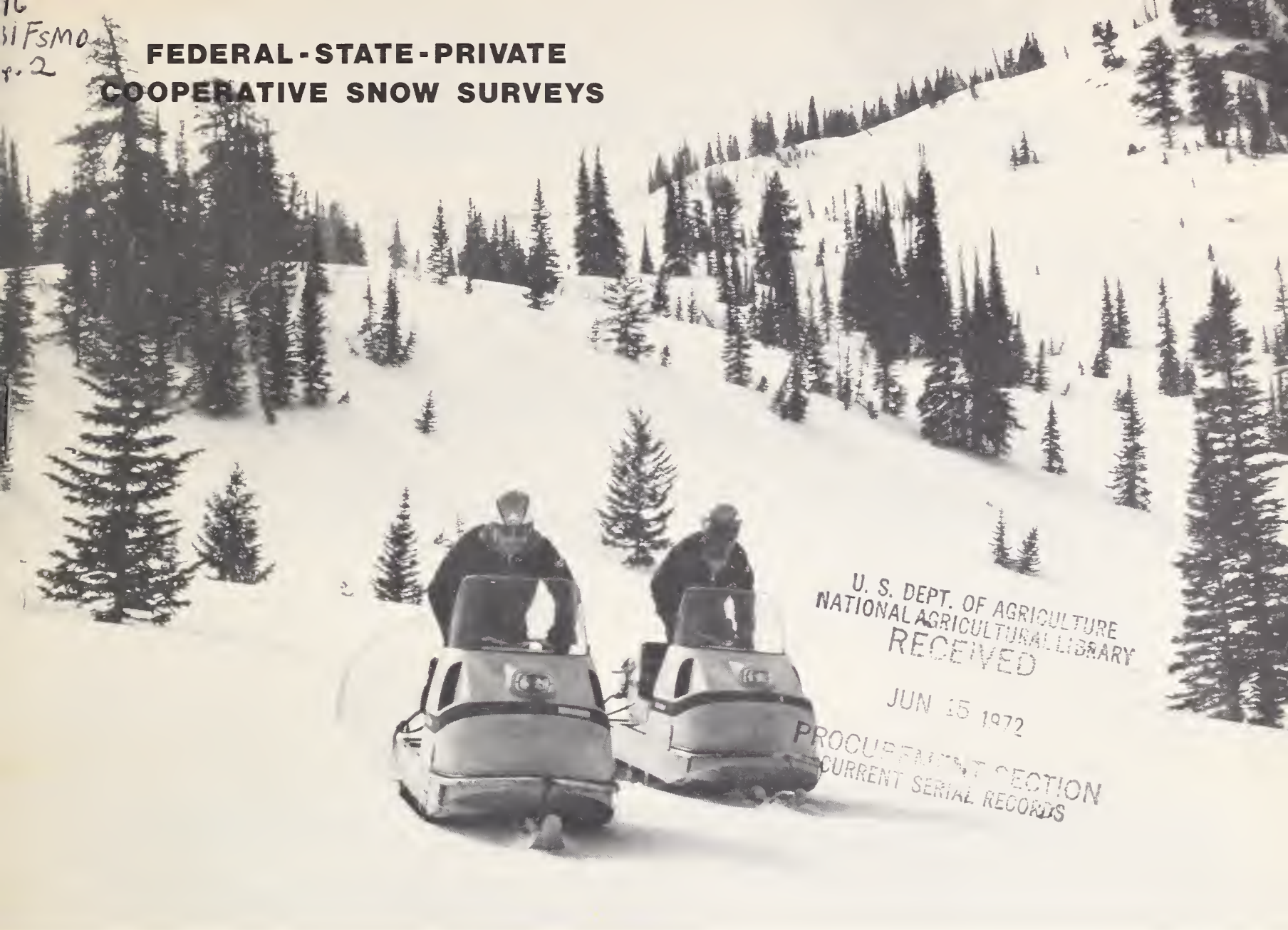


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JUN 15 1972

PROCUREMENT SECTION
CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK FOR MONTANA

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State, and private organizations listed on the inside back cover of this report.

AS OF
JUNE 1, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||
Released by

A. B. LINFORD

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
Bozeman, Montana

In Cooperation with

J. A. ASLESON

DIRECTOR
Montana Agricultural Experiment Station

|||||
Report prepared by

PHILLIP E. FARNES, Snow Survey Supervisor

and

BERNARD A. SHAFER, Assistant Snow Survey Supervisor

SOIL CONSERVATION SERVICE
P.O. Box 98
Bozeman, Montana 59715

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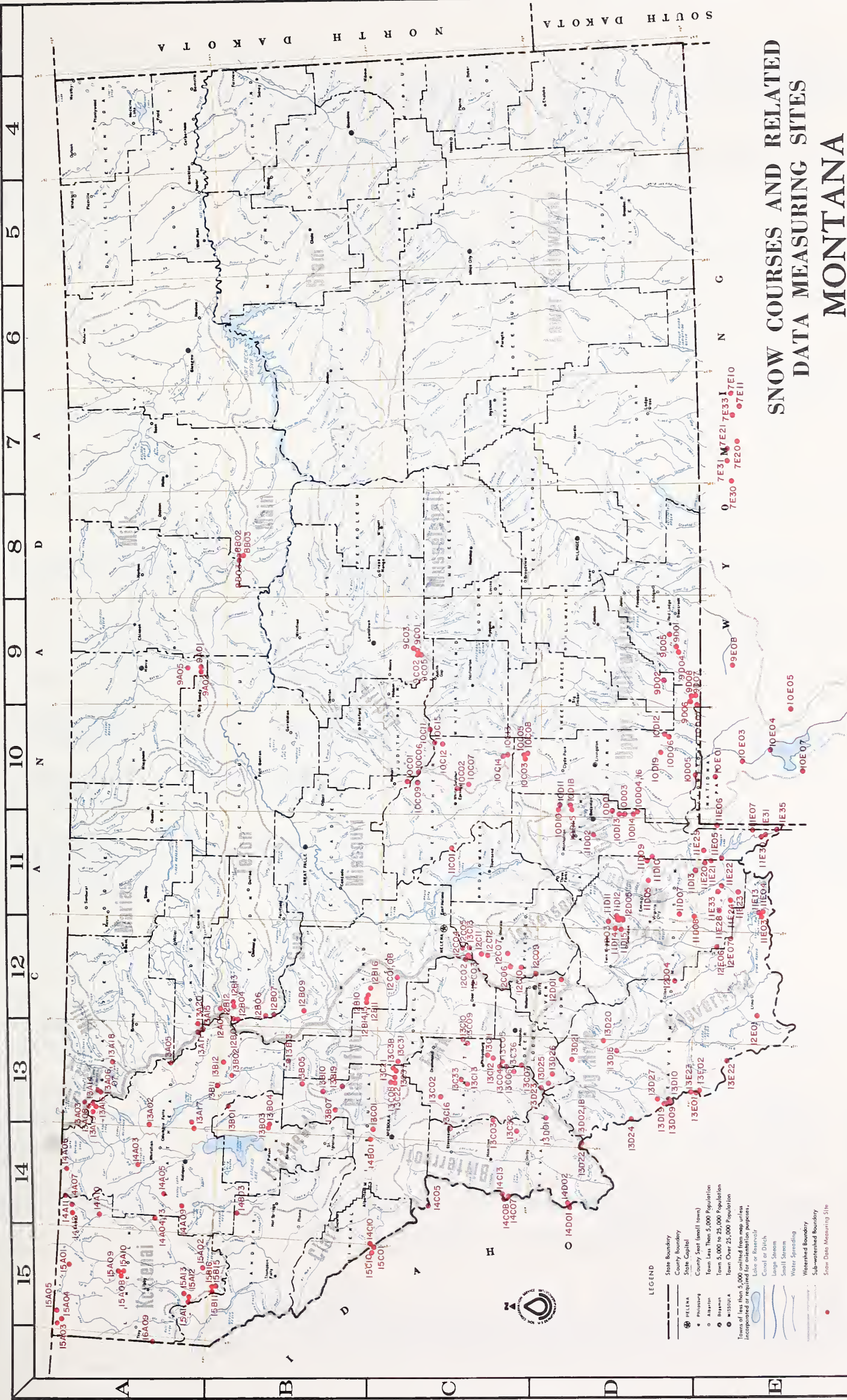
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MONTANA WATER SUPPLY OUTLOOK
June 1, 1972

The June 1 snowpack in the Columbia River drainages and along eastern slopes of the Continental Divide continues to be one of the largest recorded for this date. The higher elevation snow is a little below average in the Gallatin River drainage, and above average in nearly all other areas. Many streams in the heavy snowpack areas are experiencing one of the largest peak flow of record with peaks being generated almost entirely from snowmelt. Nearly all major streams reached their peak flow the first few days in June. Some streams with higher elevation headwaters and heavy snowpack could peak near mid-June.

Runoff for the next few months is expected to remain well above average on most snowfed streams in the Columbia and Yellowstone River drainages and those streams in the Missouri River drainage with headwaters along the divide.

Above average runoff is expected from other streams with the exception of near average conditions in the Gallatin River drainage.



SNOW COURSES AND RELATED DATA MEASURING SITES MONTANA

1972

20 0 20 40 MILES

SCALE 1:2,000,000

ALBERS EQUAL AREA PROJECTION

LEGEND

- State Boundary
- County Boundary
- State Capital
- County Seat (small town)
- Population
- Town Less Than 5,000 Population
- Town 5,000 to 25,000 Population
- Town Over 25,000 Population
- Towns of less than 5,000 omitted from map unless incorporated or required for orientation purposes.
- Lake or Reservoir
- Coastal or Ditch
- Large Stream
- Small Stream
- Water Spreading
- Watershed Boundary
- Sub-watershed Boundary
- Snow Data Measuring Site

USGS National Atlas 1:1,000,000 Albers
Equal-Area projection (1967) used as source
for base map and adapted for SCS use.

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASIN

Kootenai

Baree Trail	3800	48	7.5	6/01	5/6	6.5	6.1
Murphy Lake R. S.	3000	48	22.6	6/05	20.1	21.9	20.9
Raven R. S.	3050	48	23.0	6/01	13.8	15.0	18.9

Flathead

Desert Mountain	5600	54	8.4	6/05	8.4	8.7	8.9
Marias Pass	5250	54	6.5	5/27	8.4	7.3	6.0

Clark Fork

Black Pine	7100	48	10.0	6/01	8.6	8.0	8.6
Lubrecht Forest	4100	48	26.8	6/02	22.6	24.7	-
Seeley Lake R. S.	4030	48	11.9	6/01	11.4	11.3	11.0
Skalkaho Summit	7260	48	10.8	6/01	10.1	9.9	10.0

Bitterroot

Gibbons Pass	7100	48	7.1	5/31	7.2	7.3	7.1
Lolo Pass	5250	48	10.6	6/01	9.8	9.9	9.9

MISSOURI RIVER BASIN

Beaverhead

Lakeview	6700	48	15.3	6/01	15.3	17.3	14.9
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Madison

West Yellowstone	6700	48	6.5	6/05	2.8	3.2	3.2
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Gallatin

Bridger Bowl	7250	48	17.0	5/31	15.9	16.5	16.4
College Site No. 2	4856	54	17.7	6/02	14.5	15.5	13.7
Lick Creek	6860	48	18.8	6/01	17.9	17.4	18.2
Twenty-One Mile	7150	48	10.0	6/05	9.9	10.1	9.9

Missouri Main Stem

Kings Hill	7420	48	11.8	5/31	11.1	10.8	10.9
Stemple Pass	6350	48	5.9	6/01	5.2	5.4	5.2

Milk

Beaver Creek	3950	48	20.9	5/26	14.4	13.3	-
Rocky Boy	4700	36	10.1	5/26	9.6	9.4	-

Yellowstone

Battle Ridge	6020	48	17.6	5/31	13.3	16.9	15.7
Northeast Entrance	7350	48	9.4	5/30	8.8	8.8	9.2

General Ledger									
Date									
Description									
1900	Jan	1	Balance	100.00					
1900	Jan	2	By Cash	50.00					
1900	Jan	3	To Cash		50.00				
1900	Jan	4	By Cash	25.00					
1900	Jan	5	To Cash		25.00				
1900	Jan	6	By Cash	75.00					
1900	Jan	7	To Cash		75.00				
1900	Jan	8	By Cash	100.00					
1900	Jan	9	To Cash		100.00				
1900	Jan	10	By Cash	150.00					
1900	Jan	11	To Cash		150.00				
1900	Jan	12	By Cash	200.00					
1900	Jan	13	To Cash		200.00				
1900	Jan	14	By Cash	250.00					
1900	Jan	15	To Cash		250.00				
1900	Jan	16	By Cash	300.00					
1900	Jan	17	To Cash		300.00				
1900	Jan	18	By Cash	350.00					
1900	Jan	19	To Cash		350.00				
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1900	Jan	26	By Cash	550.00					
1900	Jan	27	To Cash		550.00				
1900	Jan	28	By Cash	600.00					
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1900	Feb	28	To Cash		1350.00				
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1900	Mar	21	By Cash	2000.00					
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1900	Apr	4	To Cash		2350.00				
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1900	Apr	6	To Cash		2400.00				
1900	Apr	7	By Cash	2450.00					
1900	Apr	8	To Cash		2450.00				
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1900	Apr	28	To Cash		2950.00				
1900	Apr	29	By Cash	3000.00					
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1900	Apr	31	By Cash	3050.00					
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1900	May	12	To Cash		3350.00				
1900	May	13	By Cash	3400.00					
1900	May	14	To Cash		3400.00				
1900	May	15	By Cash	3450.00					
1900	May	16	To Cash		3450.00				
1900	May	17	By Cash	3500.00					
1900	May	18	To Cash		3500.00				
1900	May	19	By Cash	3550.00					

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average
COLUMBIA RIVER BASIN					
Kootenai	Koocanusa	4,965.0	950.2	-	-
Flathead	Hungry Horse	3,428.0	1,955.0	2,618.0	2,632.0
	Flathead Lake	1,791.0	1,454.0	1,526.0	1,494.0
	Camas (4)	45.2	45.1	37.0	38.8
	Mission Valley (8)	100.3	55.8	80.6	63.1
Clark Fork	Georgetown Lake	31.0	25.3	27.1	24.2
	Nevada Creek	12.6	12.6	-	11.8
	Noxon Rapids	334.6	311.8	310.2	220.7
Bitterroot	Como	34.9	31.7	35.4	28.1
	Painted Rocks	31.7	28.1	32.5	32.6
MISSOURI RIVER BASIN					
Beaverhead	Clark Canyon	328.9	147.0	165.7	127.7
	Lima	84.0	63.9	79.3	50.9
Ruby	Ruby	38.8	37.9	36.0	37.3
Madison	Hebgen Lake	377.5	258.4	295.4	278.4
	Ennis Lake	41.0	36.7	36.5	35.7
Gallatin	Middle Creek	8.0	7.8	5.0	6.7
Missouri	Canyon Ferry	2,043.0	1,531.0	1,351.0	1,722.0
	Hauser & Helena	61.9	62.5	60.1	57.3
	Lake Helena	10.4	10.7	9.8	8.9
	Holter Lake	81.9	78.8	77.3	74.8
	Smith River	10.7	11.1	11.5	10.4
	Bair	7.0	7.1	7.0	6.4
	Martinsdale	23.1	15.2	18.4	15.6
	Deadman's Basin	72.2	64.0	60.0	57.2
	Fort Peck	19,410.0	16,860.0	17,180.0	11,570.0
Sun	Gibson	105.0	93.8	93.0	94.7
	Willow Creek	32.3	31.9	30.5	27.6
	Pishkun	32.0	31.9	31.3	28.1
Marias	Lower Two Medicine	16.6		-	9.5
	Four Horns	19.2		14.0	12.9
	Swift	30.0	28.0	30.2	28.3
	Lake Frances	112.0	103.2	99.4	98.2
	Tiber	1,347.0	621.7	610.2	742.0
Milk	Fresno	127.2	125.5	102.1	109.5
	Nelson	66.8	49.1	46.3	46.9
	Lake Sherburne	66.1	17.1	45.0	28.3
Yellowstone	Mystic Lake	20.8	3.5	3.4	6.3
	Tongue River	68.0		34.4	35.5
	Cooney	27.5	20.2	20.0	16.5
Big Horn	Big Horn	1,356.0	768.3	731.0	-

1. The first part of the document is a list of the names of the persons who have been appointed to the various offices of the corporation.

2. The second part of the document is a list of the names of the persons who have been appointed to the various offices of the corporation.

3. The third part of the document is a list of the names of the persons who have been appointed to the various offices of the corporation.

4. The fourth part of the document is a list of the names of the persons who have been appointed to the various offices of the corporation.

5. The fifth part of the document is a list of the names of the persons who have been appointed to the various offices of the corporation.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

COLUMBIA RIVER BASIN

KOOTENAI RIVER

Bald Eagle Peak	5700	6/01	110	67.1	64.9	-
Banfield Mountain	5600	6/02	13	6.9	8.5	-
Banfield Mountain Pillow	5600	6/02	SP	4.9	1.4	-
Bristow Creek	3900	6/02	0	0.0	0.0	-
Cedar Grove	4100	6/01	0	0.0	0.0	-
Davis Creek	5400	5/31	0	0.0	9.8	-
Garver Creek	4250	5/31	0	0.0	0.0	-
Garver Creek Pillow	4250	5/31	SP	0.0	0.0	-
Glacier	4100	5/28	52	29.0	13.4	11.2
Graves Creek	4300	5/30	10	5.0	4.2	0.8
Gray Creek	5100	5/28	35	16.6	9.7	11.3
Hawkins Lake	6450	5/31	59	31.8	34.3	-
Hawkins Lake Pillow	6450	5/31	SP	36.2	31.8	-
Kicking Horse	5400	5/31	20	8.4	0.7	-
Lost Soul	4800	6/02	0	0.0	0.0	-
Marble Canyon	5000	5/29	21	9.6	-	1.0
Morrissey Ridge	6100	5/30	45	25.4	8.5	13.0
Poorman Creek	5100	6/01	26	14.9	17.5	-
Poorman Creek Pillow	5100	6/01	SP	20.0	10.1	-
Red Mountain	6000	6/01	14	7.6	9.2	5.6
Sinclair Pass	4500	5/29	0	0.0	-	-
Stahl Peak	6050	5/30	84	46.6	43.0	-
Weasel Divide	5450	5/30	64	36.9	29.5	19.7

FLATHEAD RIVER

Big Creek	6750	5/30	114	63.1	46.6	42.7
Fatty Creek	5500	5/30	28	16.0	6.5	7.2
Hell Roaring Divide	5770	6/01	37	22.0	8.1	13.5
North Fork Jocko	6330	5/31	83	48.9	31.4	30.7

SP - Snow pillow observation - water content only.

ORIGINAL ARTICLES		DEPARTMENTS	
1	THE PROBLEM OF THE FUTURE OF THE MEDICAL PROFESSION J. H. HARRIS, M.D., St. Louis, Mo.	10	THE MEDICAL PROFESSION AND THE PUBLIC J. H. HARRIS, M.D., St. Louis, Mo.
2	THE MEDICAL PROFESSION AND THE PUBLIC J. H. HARRIS, M.D., St. Louis, Mo.	11	THE MEDICAL PROFESSION AND THE PUBLIC J. H. HARRIS, M.D., St. Louis, Mo.
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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

CLARK FORK RIVER

Black Pine	7100	6/01	15	7.9	0.0	4.1
Heart Lake Trail	4800	6/01	11	6.1	2.0	-
Hoodoo Basin	6000	6/01	110	63.4	42.3	32.9
Hoodoo Basin Pillow	6000	6/01	SP	61.1	44.0	29.4
Hoodoo Creek	5900	6/01	106	61.4	42.4	32.0
Lookout	5250	6/01	46	25.3	18.2	13.9
Skalkaho Summit	7260	6/01	59	34.0	16.2	16.8
Stuart Mountain	7400	6/01	55	30.6	27.0	18.0
TV Mountain	6800	5/31	35	19.0	11.6	-

BITTERROOT RIVER

Gibbons Pass	7100	5/31	36	19.4	15.8	7.6
Lost Horse	5940	5/30	80	46.0	31.6	18.5
Saddle Mountain	7940	5/31	60	32.2	26.8	18.0
Saddle Mountain Pillow	7940	5/31	SP	34.7	29.9	-
Twelvemile Creek	5600	5/30	7	4.5	0.0	-
Twin Lakes	6510	5/30	103	60.8	43.3	32.2
Twin Lakes Pillow	6400	5/30	99	57.2	38.8	-

SP - Snow pillow observation - water content only.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

MISSOURI RIVER BASIN

JEFFERSON RIVER

Rocker Peak	8000	5/30	28	13.4	11.7	-
Rocker Peak Pillow	8000	5/30	SP	20.2	18.7	-

MADISON RIVER

Black Bear	7950	6/02	61	34.2	-	-
Black Bear Pillow	7950	6/02	SP	31.8	-	-
Madison Plateau	7750	5/31	16	8.0	-	-
Madison Plateau Pillow	7750	5/31	SP	10.0	20.9	-
West Yellowstone Pillow	6700	6/01	SP	0.0	0.0	0.0
Whiskey Creek	6800	5/30	0	0.0	0.0	-
Whiskey Creek Pillow	6800	5/30	SP	0.0	-	-

GALLATIN RIVER

Arch Falls	7350	6/01	8	3.4	14.4	8.9
Bridger Bowl	7250	5/31	40	22.4	35.8	20.8
Bridger Bowl Pillow	7250	5/31	SP	20.0	36.5	15.3
Devils Slide	8100	6/01	42	20.0	31.6	23.0
Hood Meadow	6600	6/01	0	0.0	0.7	2.4
Lick Creek	6860	6/01	0	0.0	0.0	0.0
Lick Creek Pillow	6860	6/01	SP	0.0	0.0	0.0
Maynard Creek	6210	5/31	0	0.0	6.9	5.6
Maynard Creek Pillow	6210	5/31	SP	0.3	6.2	4.8
Shower Falls	8100	6/01	45	22.7	37.5	25.6
Shower Falls Pillow	8100	6/01	SP	20.4	34.5	22.2

MISSOURI RIVER (Main Stem)

Deadman Creek	6450	5/31	0	0.0	0.0	0.0
Deadman Creek Pillow	6450	5/31	SP	0.0	0.0	0.0
Kings Hill	7500	5/31	28	13.9	10.7	10.3

SUN-TETON-MARIAS RIVERS

Mount Lockhart	6400	5/31	40	22.4	-	-
Waldron	5600	5/31	0	0.0	-	-

JUDITH RIVER

Spur Fork	8100	5/31	46	25.1	21.7	19.5
Spur Fork Pillow	8100	5/31	SP	28.9	22.5	18.5

UPPER YELLOWSTONE RIVER

Cooke Station	8150	5/30	31	15.5	20.0	10.9
Fisher Creek	9100	5/30	93	47.6	58.9	33.5
Fisher Creek Pillow	9100	5/30	SP	45.7	53.9	30.6
Northeast Entrance	7400	5/30	0	0.0	-	0.4
Northeast Entrance Pillow	7350	5/30	SP	0	0.1	0.0
White Mill	8700	5/30	67	34.4	40.2	22.7

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

SUPPLEMENTAL MEASUREMENTS 1972

December 1

Picket Pin Lower	6200	12/01	7	0.8	-	-
Picket Pin Middle	7200	12/01	18	3.2	-	-
Picket Pin Upper	8500	11/30	34	7.4	-	-

January 1

Lubrecht Flume	4800	1/08	24	5.5	2.4	-
Lubrecht Hydroplot	4200	1/08	22	4.8	2.0	-
Picket Pin Middle	7250	12/29	25	7.2	-	-
Picket Pin Upper	8500	12/29	42	13.6	-	-

January 15

Carrot Basin	9000	1/11	83	24.0	-	-
North Fork Elk Creek	6250	1/12	45	10.1	5.8	-
TV Mountain	6800	1/15	60	17.4	10.9	6.6

February 1

Baree Creek	5500	2/01	138	50.9	37.0	-
Baree Midway	4600	2/01	113	38.7	30.9	-
Baree Trail	3800	2/07	44	14.3	9.0	-
Carrot Basin	9000	2/01	92	33.1	38.3	-
Holbrook	4530	1/27	53	13.0A	10.5A	7.4
Picket Pin Lower	6200	2/02	8	0.9	-	-
Picket Pin Middle	7250	2/02	48	16.9	-	-
Picket Pin Upper	8500	2/02	57	21.7	-	-
Spotted Bear Mountain	7000	1/27	65	17.0A	15.5A	10.1
Twin Creeks	3580	1/27	64	16.0A	12.5A	8.7

E - Estimated data.

A - Aerial observation - water content estimated.

Table 1. Summary of the data collected during the field study.

Location	Time	Temperature (°C)	Humidity (%)	Wind Speed (m/s)	Cloud Cover (%)
1	08:00	25.0	65.0	1.5	10
2	09:00	26.5	68.0	2.0	15
3	10:00	28.0	70.0	2.5	20
4	11:00	29.5	72.0	3.0	25
5	12:00	31.0	75.0	3.5	30
6	13:00	32.0	78.0	4.0	35
7	14:00	33.0	80.0	4.5	40
8	15:00	34.0	82.0	5.0	45
9	16:00	35.0	85.0	5.5	50
10	17:00	36.0	88.0	6.0	55
11	18:00	37.0	90.0	6.5	60
12	19:00	38.0	92.0	7.0	65
13	20:00	39.0	95.0	7.5	70
14	21:00	40.0	98.0	8.0	75
15	22:00	41.0	100.0	8.5	80
16	23:00	42.0	100.0	9.0	85
17	00:00	43.0	100.0	9.5	90
18	01:00	44.0	100.0	10.0	95
19	02:00	45.0	100.0	10.5	100
20	03:00	46.0	100.0	11.0	100
21	04:00	47.0	100.0	11.5	100
22	05:00	48.0	100.0	12.0	100
23	06:00	49.0	100.0	12.5	100
24	07:00	50.0	100.0	13.0	100

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

SUPPLEMENTAL MEASUREMENTS 1972 (Continued)

February 15

West Rosebud	7500	2/17	47	15.4	12.9	8.8
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March 1

Picket Pin Lower	6200	3/01	0	0.0	-	-
Picket Pin Middle	7250	3/01	50	19.4	-	-
Picket Pin Upper	8500	3/01	78	29.6	-	-

April 1

East Boulder	9250	3/31	96	36.5A	47.0A	-
Picket Pin Aerial	9450	3/31	77	27.0A	33.0A	-
Picket Pin Lower	6200	4/04	0	0.0	-	-
Picket Pin Middle	7200	4/04	0	0.0	-	-
Picket Pin Upper	8500	4/04	63	27.4	-	-
Placer Basin	8800	3/31	63	22.0A	31.0A	-
Star Lake	9670	3/31	118	47.0A	57.0A	-
West Rosebud	7500	4/06	36	14.9	17.1	10.6

May 1

East Boulder	9250	4/28	98	41.0A	53.0A	-
Picket Pin Aerial	9450	4/28	79	33.0A	42.0A	-
Picket Pin Upper	8500	5/03	72	36.6	-	-
Placer Basin	8800	4/28	63	25.0A	38.0A	-
Star Lake	9670	4/28	116	51.0A	62.0A	-

May 15

East Boulder	9250	5/14	79	34.5A	44.0A	-
Picket Pin Aerial	9450	5/14	82	37.0A	38.0A	-
Picket Pin Upper	8500	5/15	69	35.9	-	-
Placer Basin	8800	5/14	58	22.5A	30.0A	-
Star Lake	9670	5/14	109	53.5A	58.0A	-

A - Aerial observation - water content estimated.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

CORRECTIONS TO PREVIOUSLY PUBLISHED 1972 DATA

JANUARY 1

Chessman Reservoir	6200	1/05	17	3.4	1.6	1.4
Marias Pass	5250	12/29	41	10.4	9.4	7.4
Shower Falls	8100	12/28	40	11.4	14.8	10.2

FEBRUARY 1

Picnic Grounds	6500	2/01	21	6.0	2.4	3.1
Southern Cross	6500	2/01	26	7.8	3.5	4.4

MARCH 1

Combination	5600	3/03	36	10.5	4.2	-
Griffin Creek Divide	5150	2/29	52	17.4	12.8	11.3
Holbrook	4530	3/06	52	17.7	11.8	9.9
Kings Hill	7500	2/25	62	19.1	14.0	10.7
Lubrecht Forest No. 3	5450	2/28	42	12.4	6.3	6.6
Nez Perce Creek	6500	2/29	30	8.4	3.7	-
North Fork Jocko	6330	3/01	152	57.3	47.6	40.4
Stuart Mill	6500	3/01	36	10.1	5.4	5.8

APRIL 1

Hebgen Dam	6550	3/28	28	9.2	15.6	11.3
Kings Hill	7500	3/27	60	21.0	18.4	13.2
West Yellowstone	6700	3/27	44	14.8	17.9	10.8

MAY 1

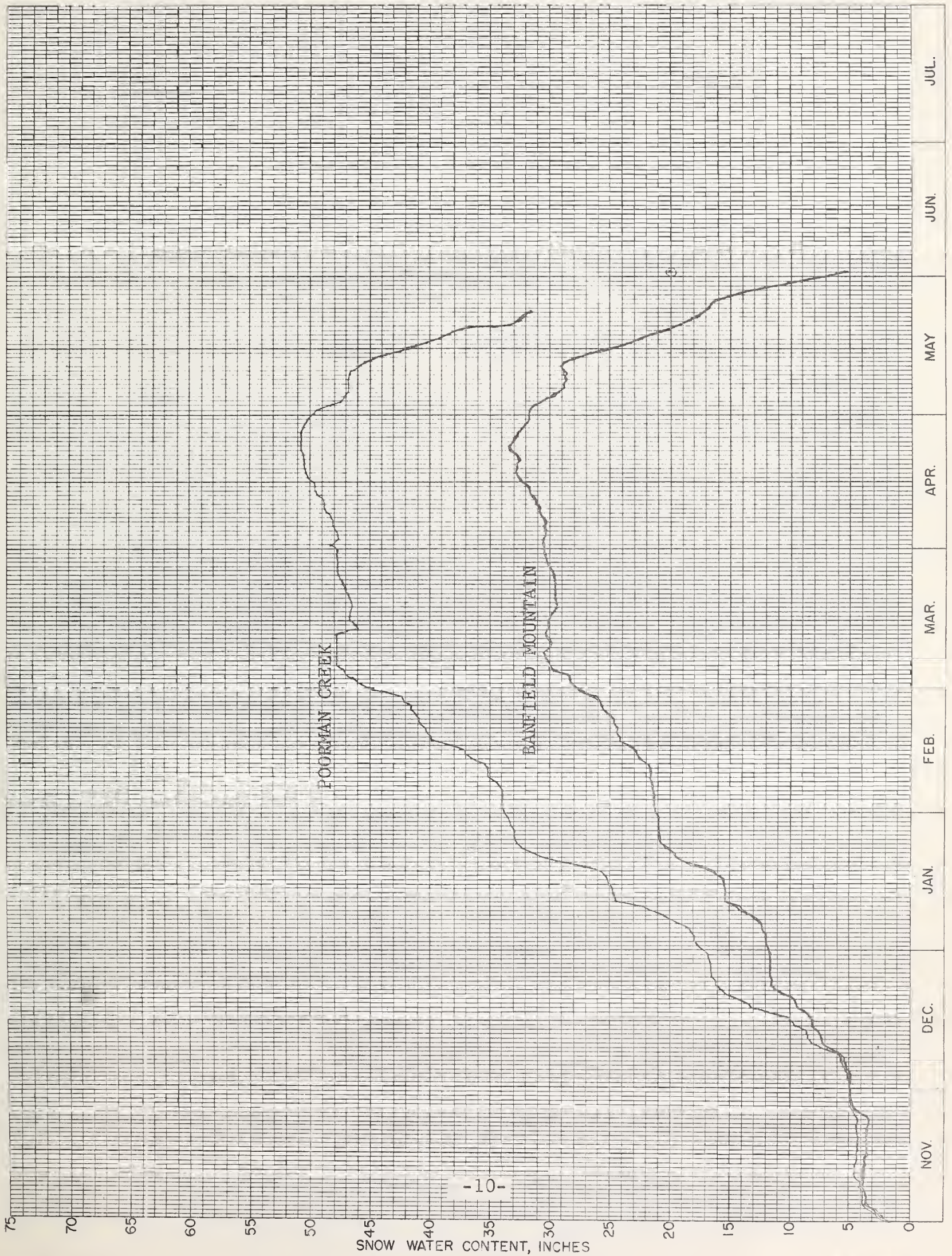
Intergaard	6450	5/01	37	14.6	9.8	7.8
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MAY 15

Beaver Lake	5900	5/17	58	32.0	-	-
Blue Lake	5900	5/17	56	32.7	-	-

SNOW PILLOW DATA
WATER YEAR 1972

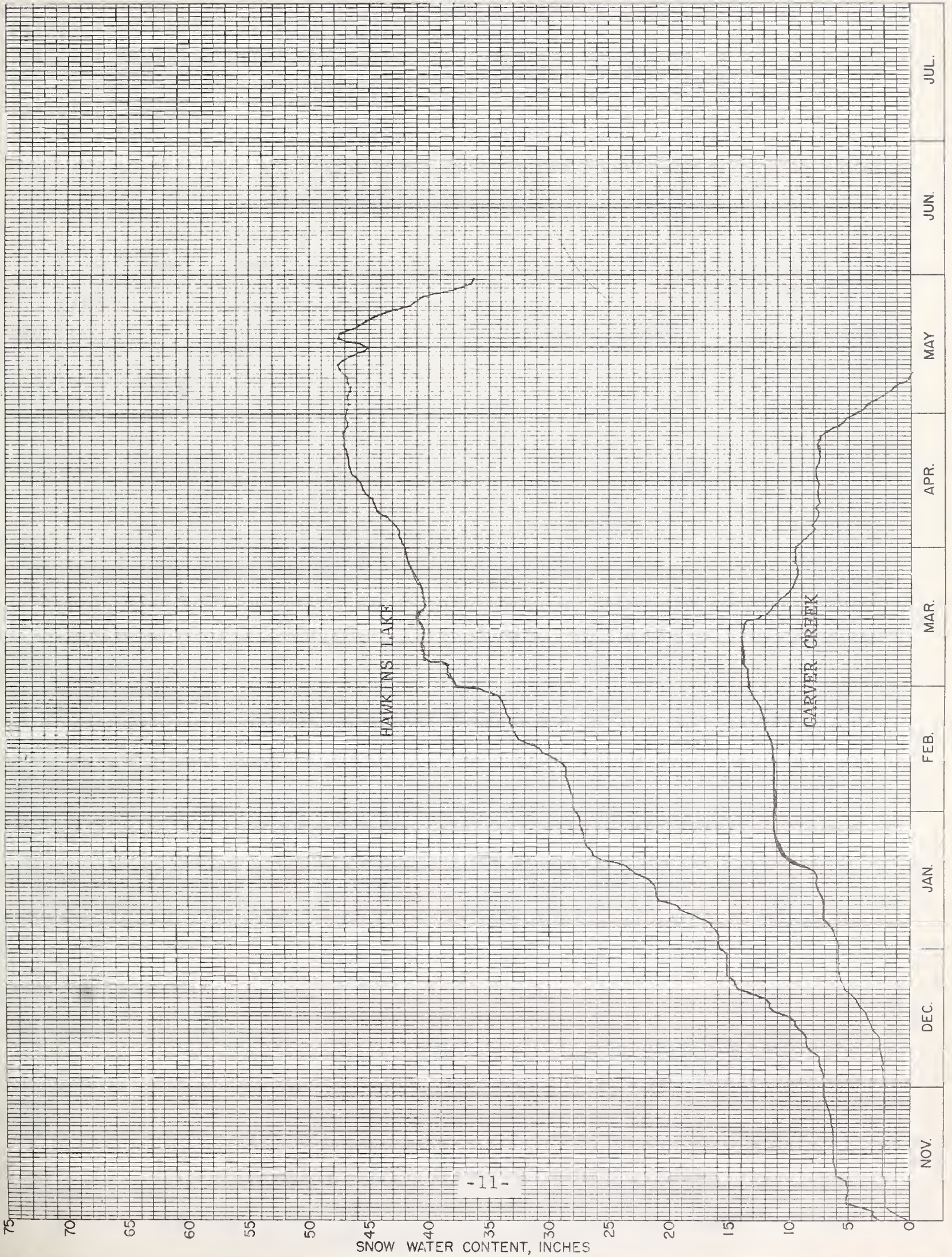
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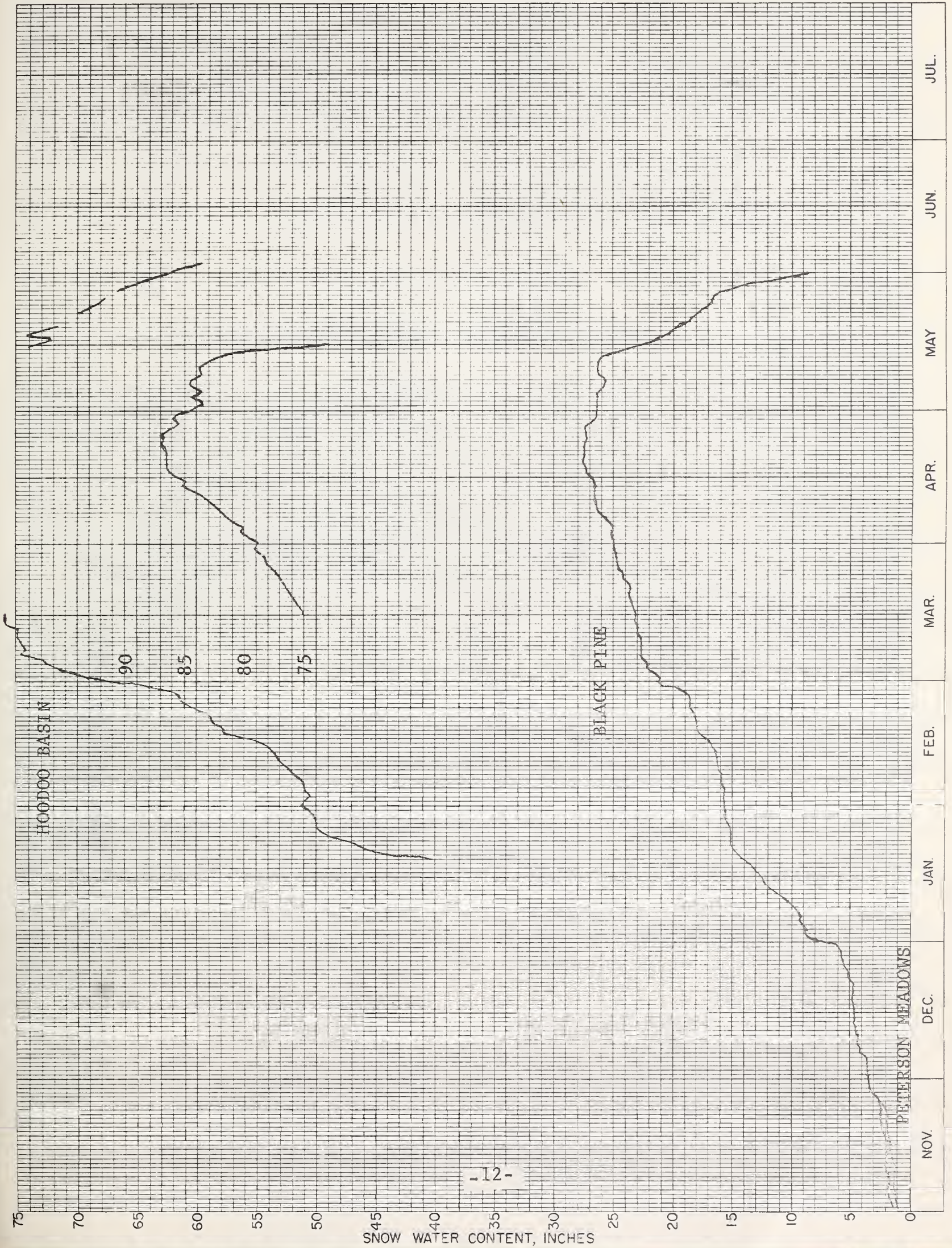
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WATER YEAR 1972

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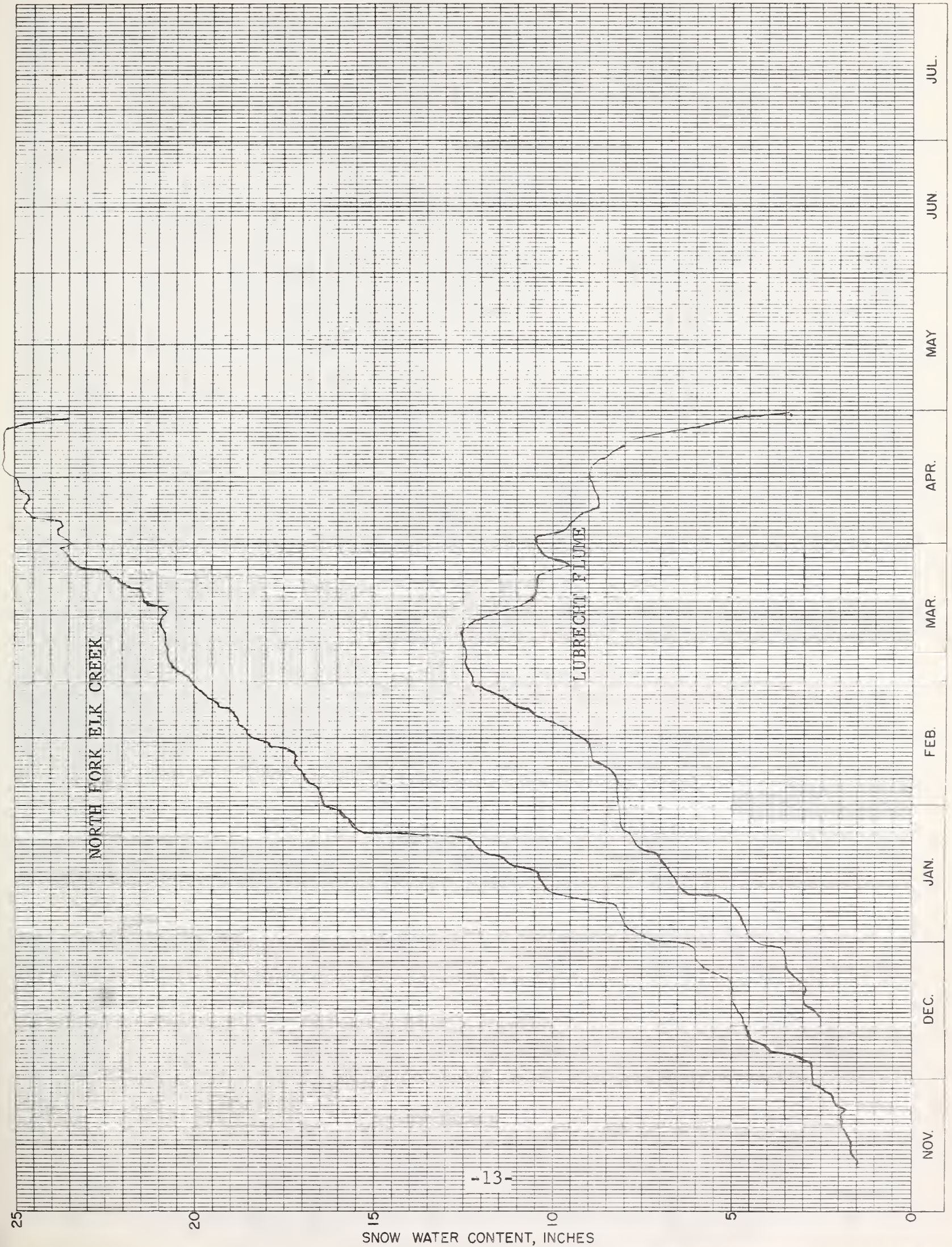
SNOW PILLOW DATA WATER YEAR 1972

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SNOW PILLOW DATA
WATER YEAR 1972

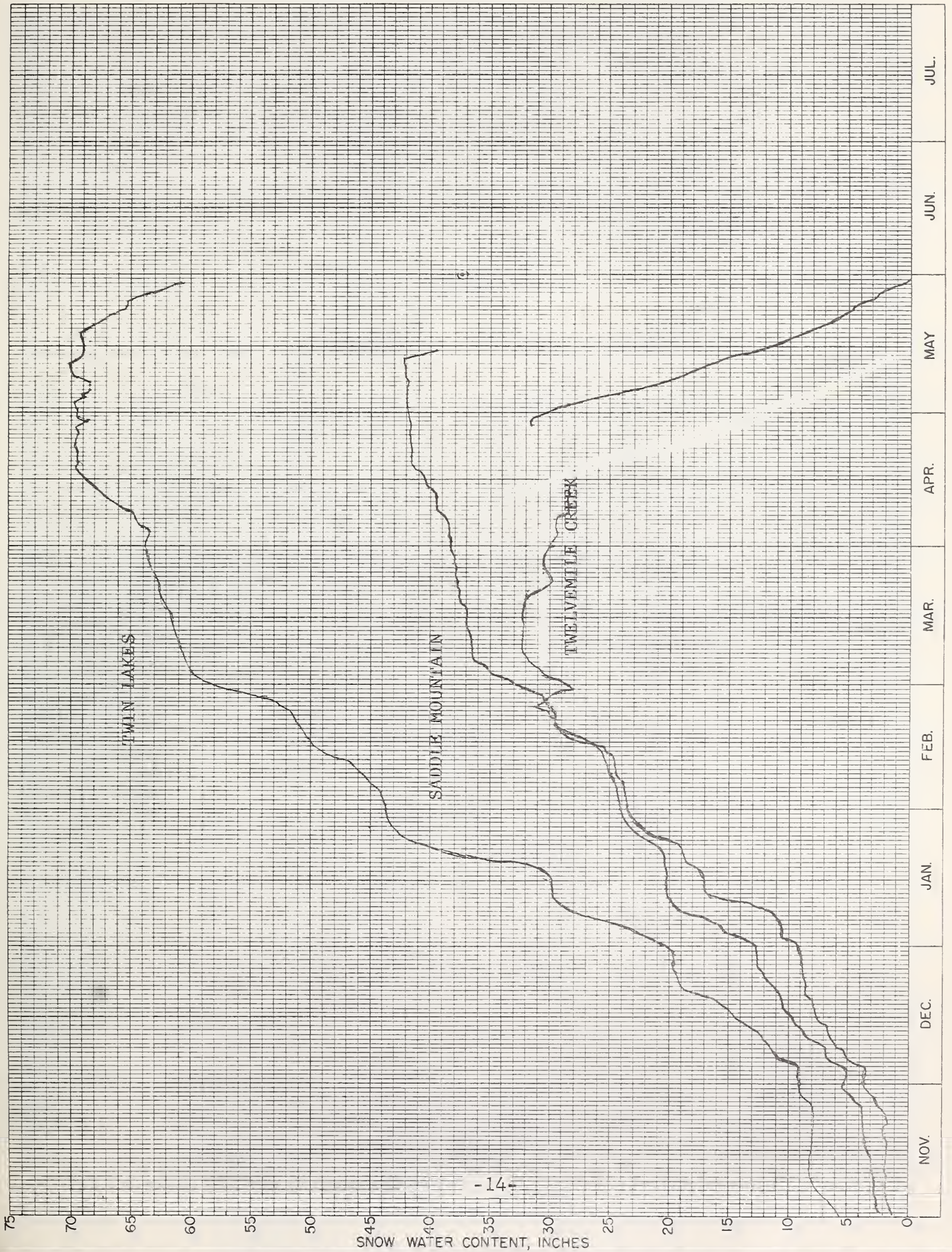
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SNOW PILLOW DATA
WATER YEAR 1972

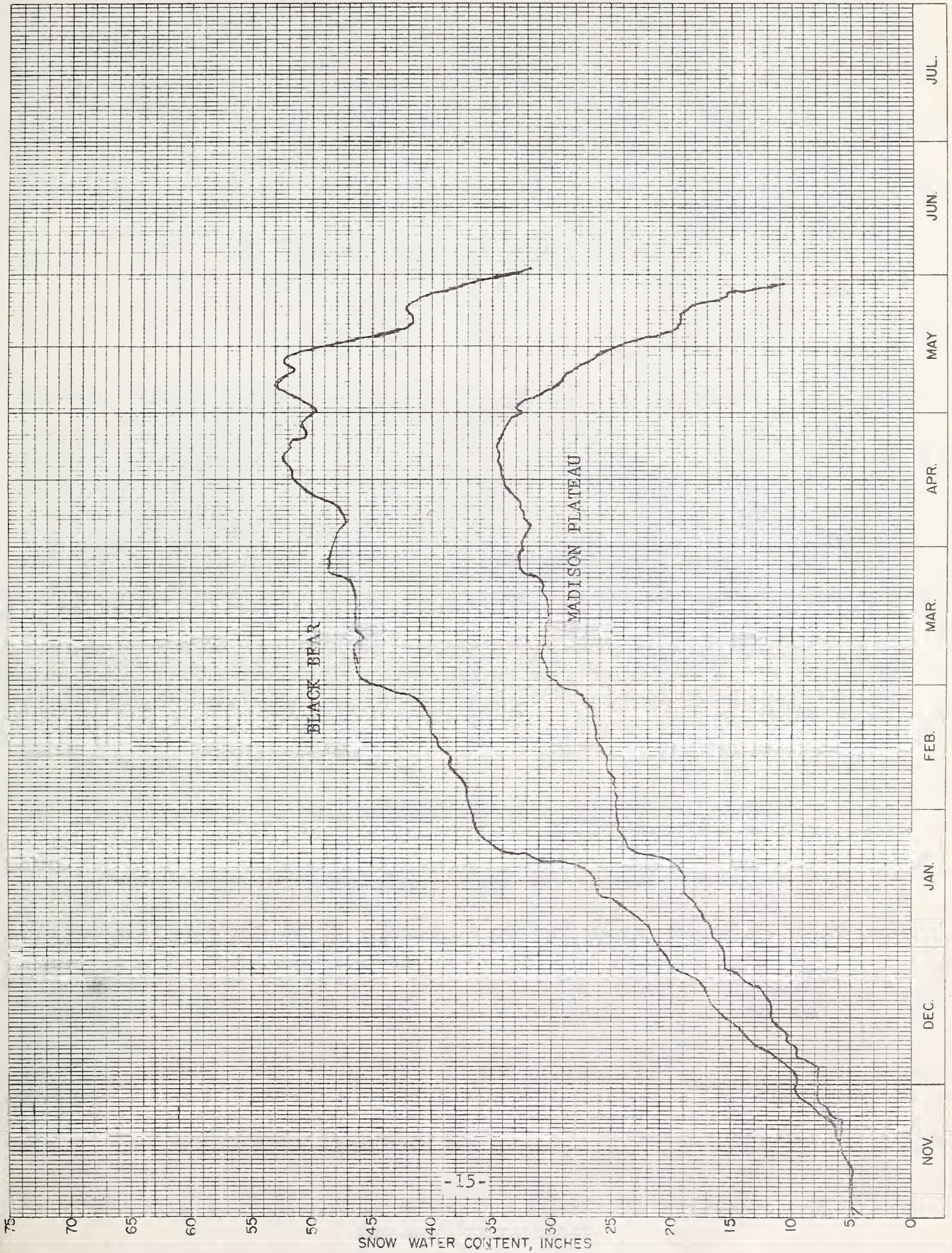
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SNOW PILLOW DATA
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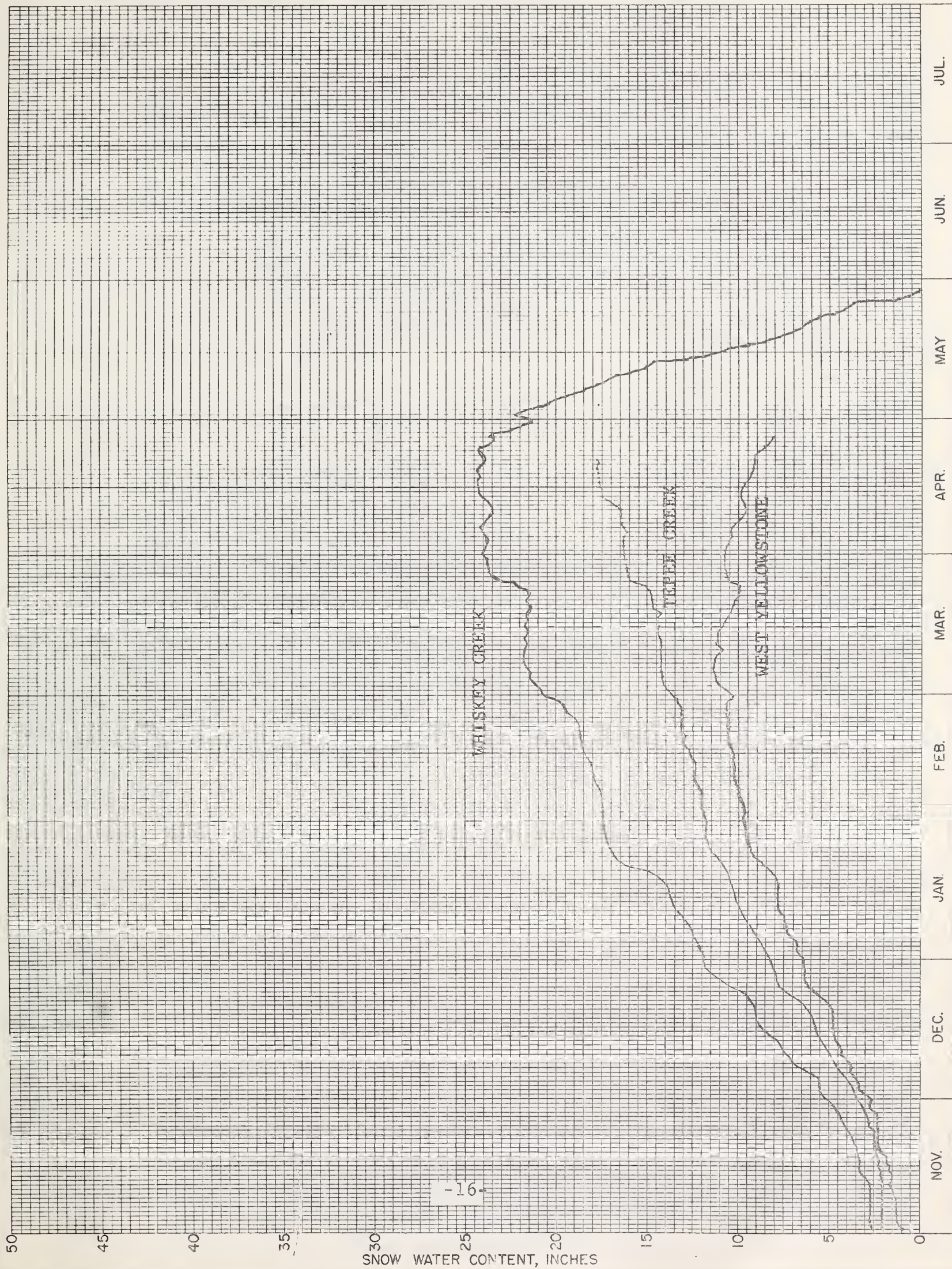
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SNOW PILLOW DATA WATER YEAR 1972

No. _____ Elev. _____ Drainage: MADISON



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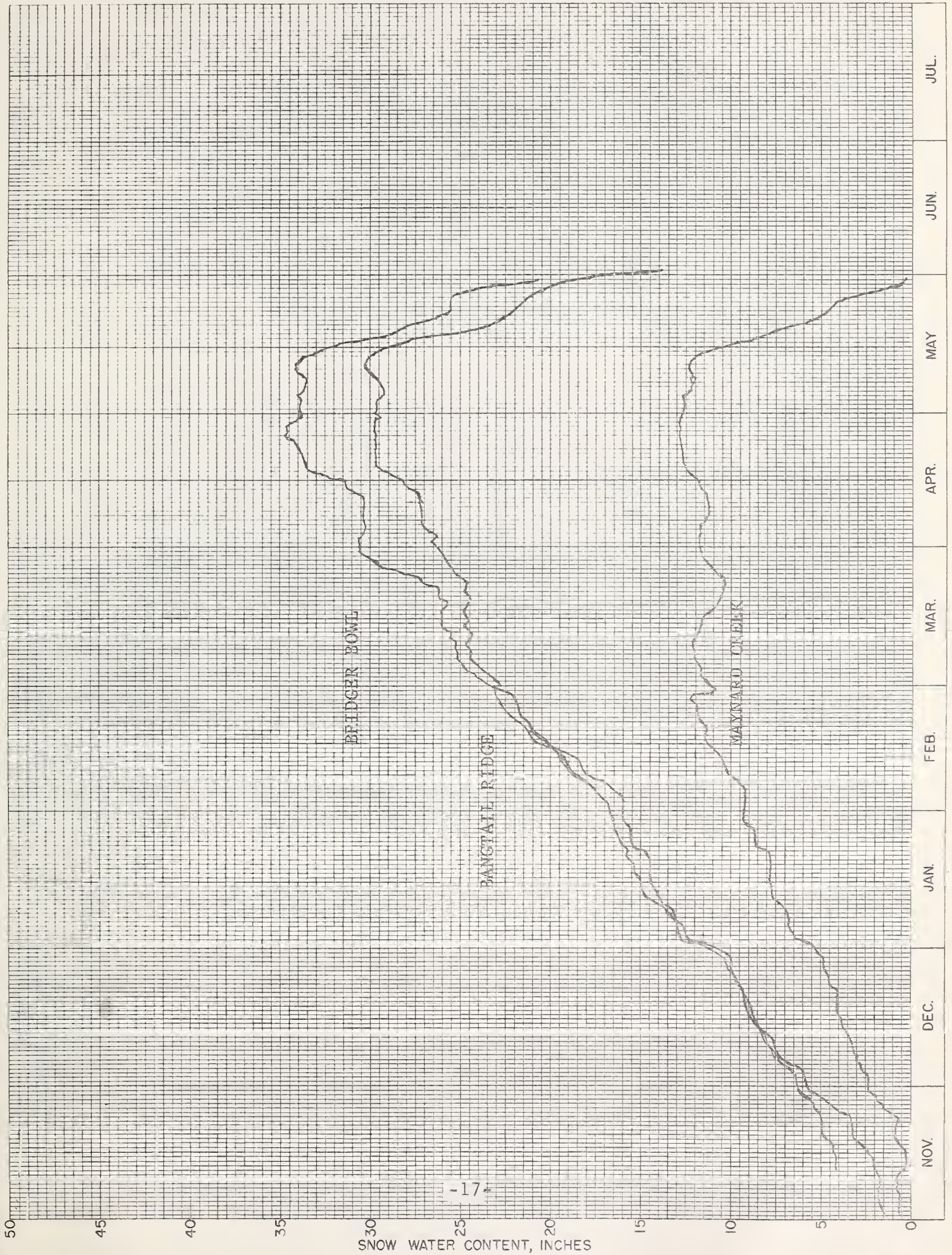
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WATER YEAR 1972

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GALLATIN

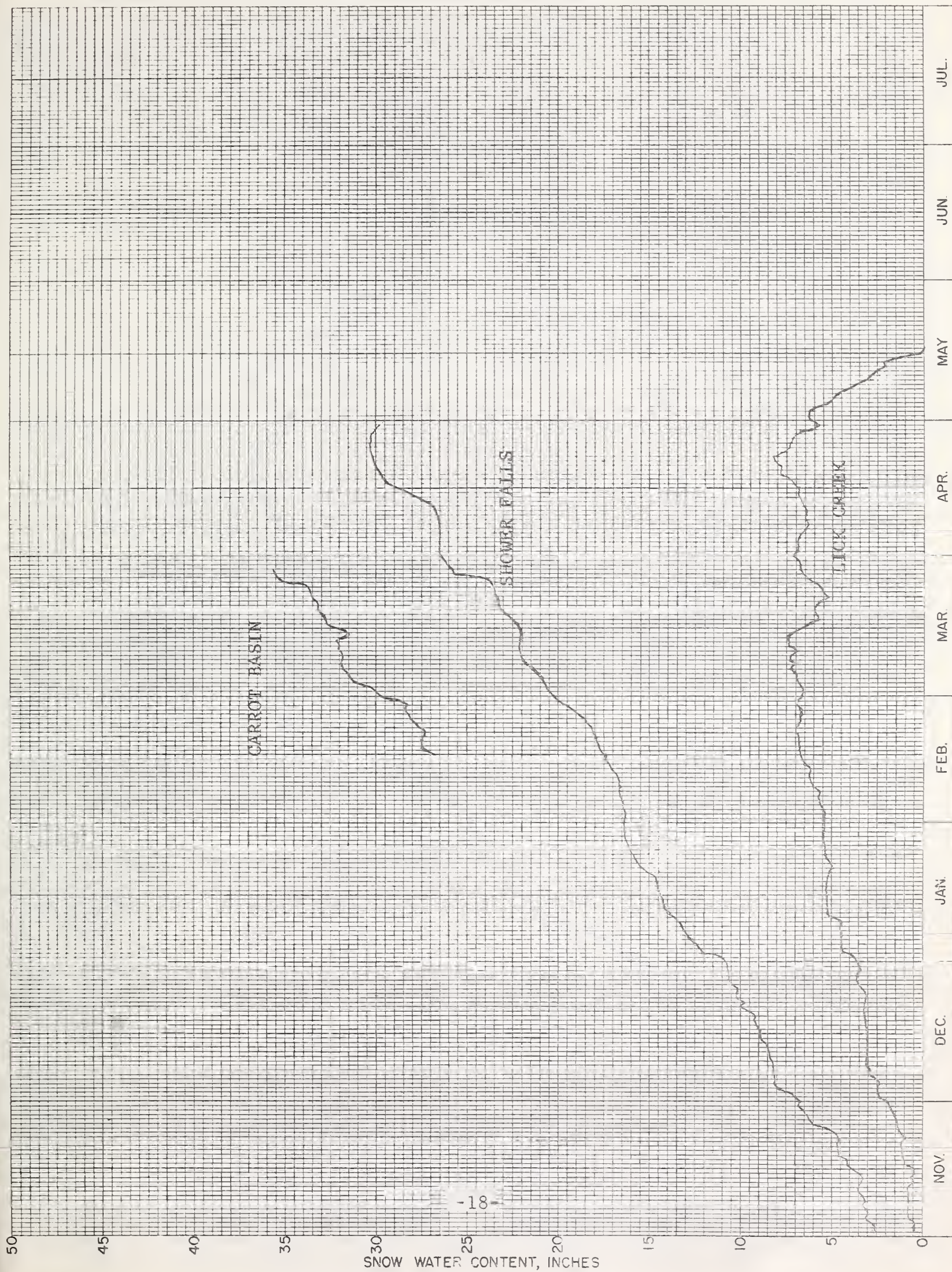


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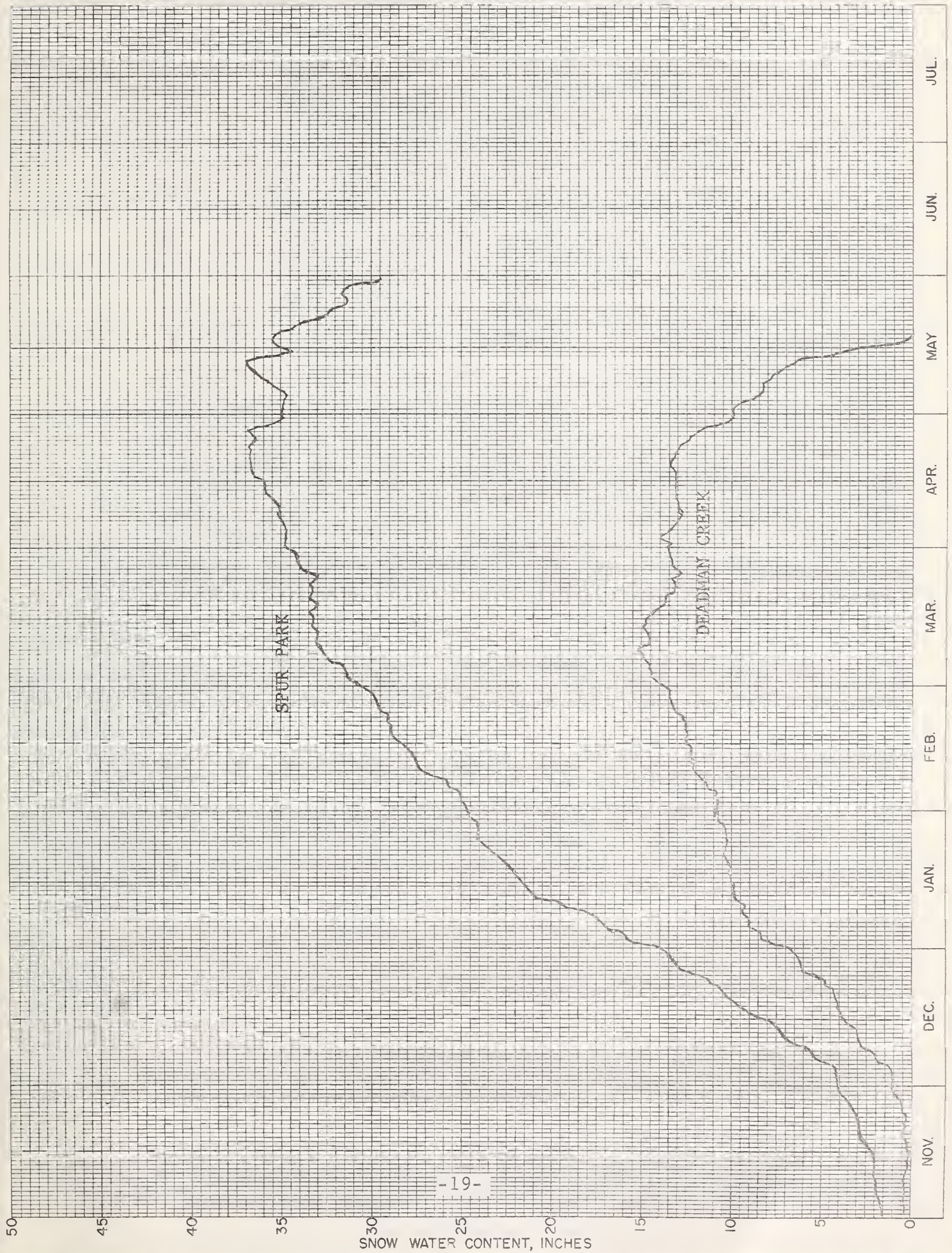
SNOW PILLOW DATA
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No. _____ Elev. _____ Drainage: JUDITH-JEFFERSON-MISSOURI



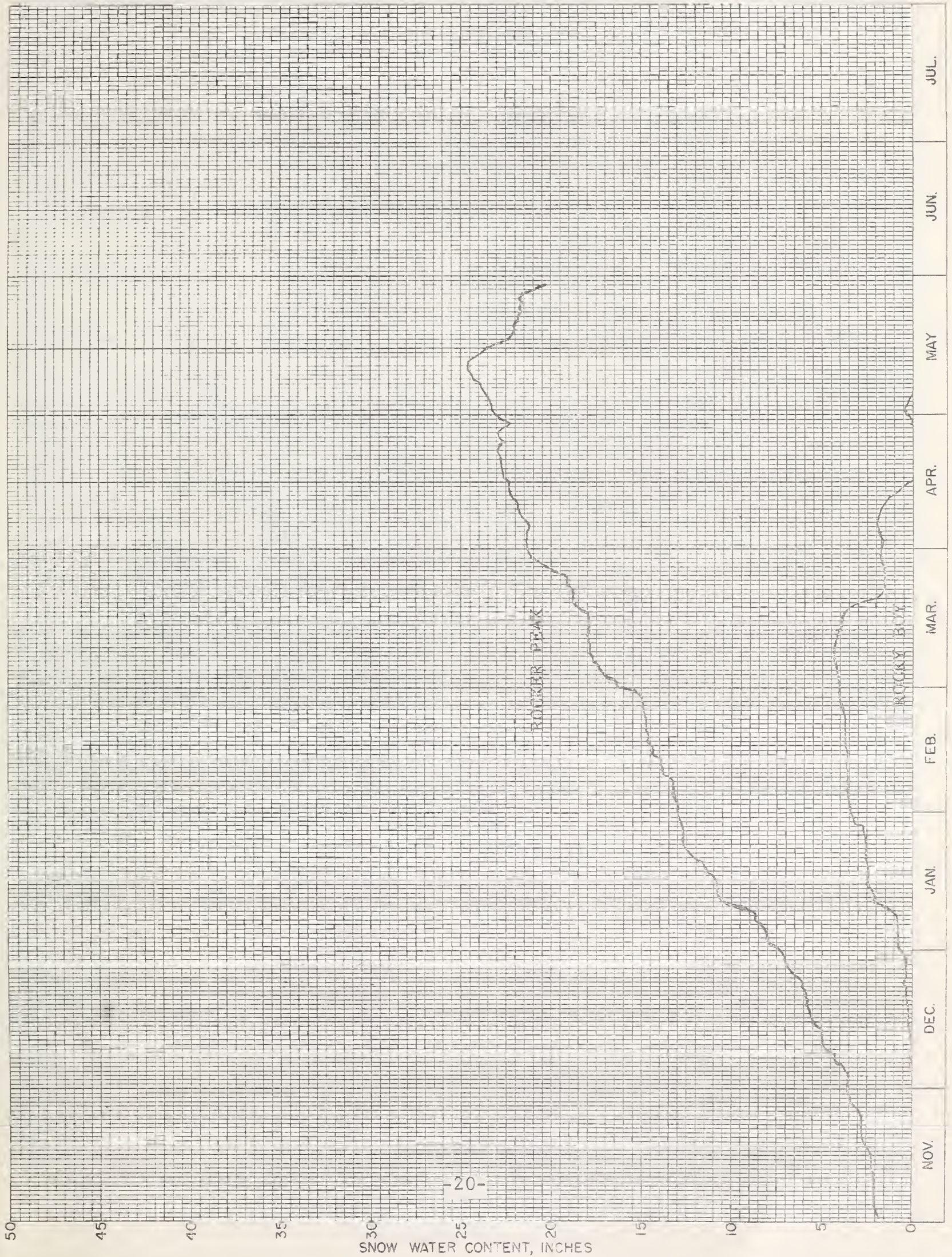


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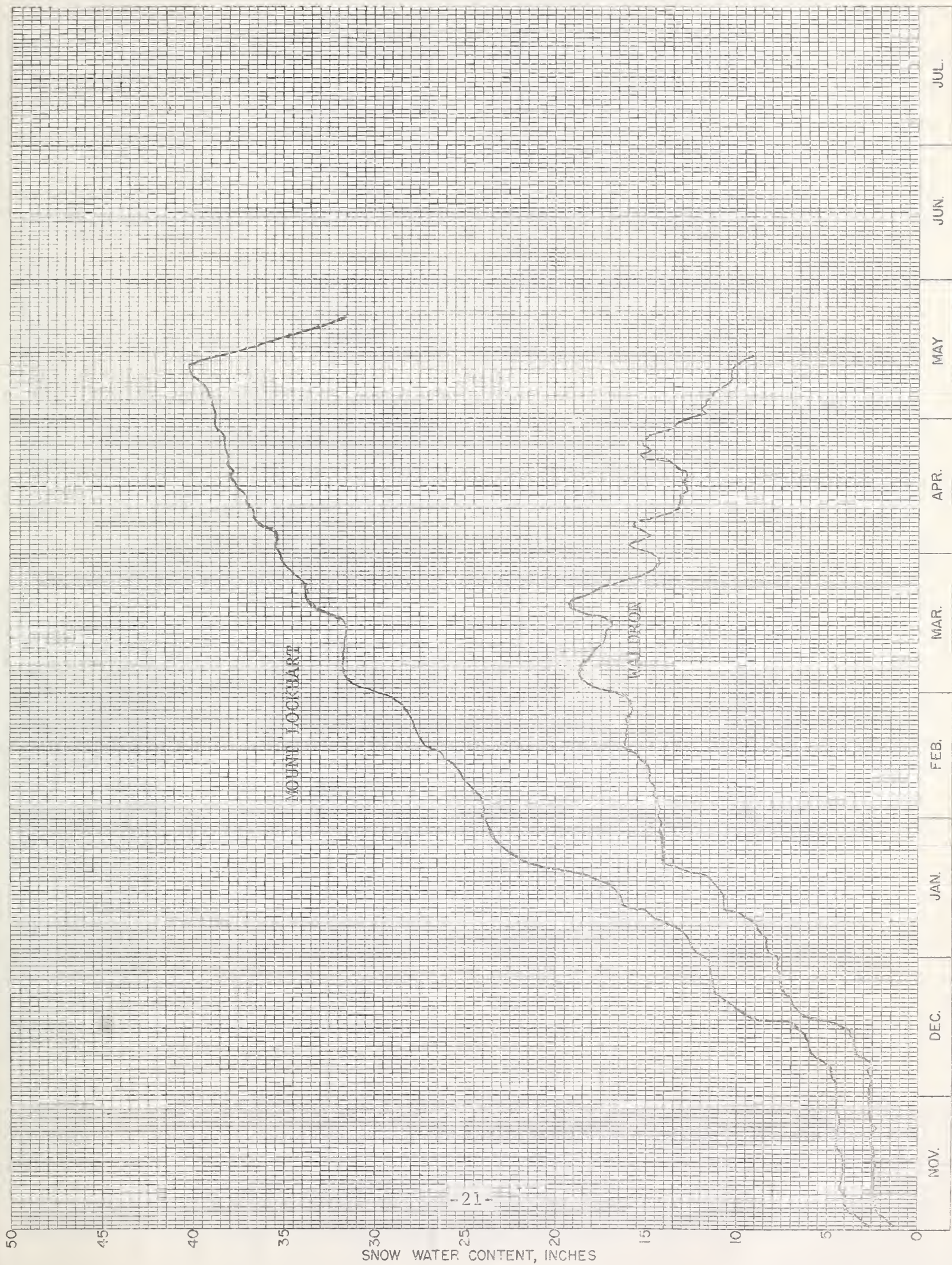
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Drainage: JUDITH-JEFFERSON-MISSOURI



SNOW PILLOW DATA
WATER YEAR 1972

No. _____ Elev. _____ Drainage: SUN



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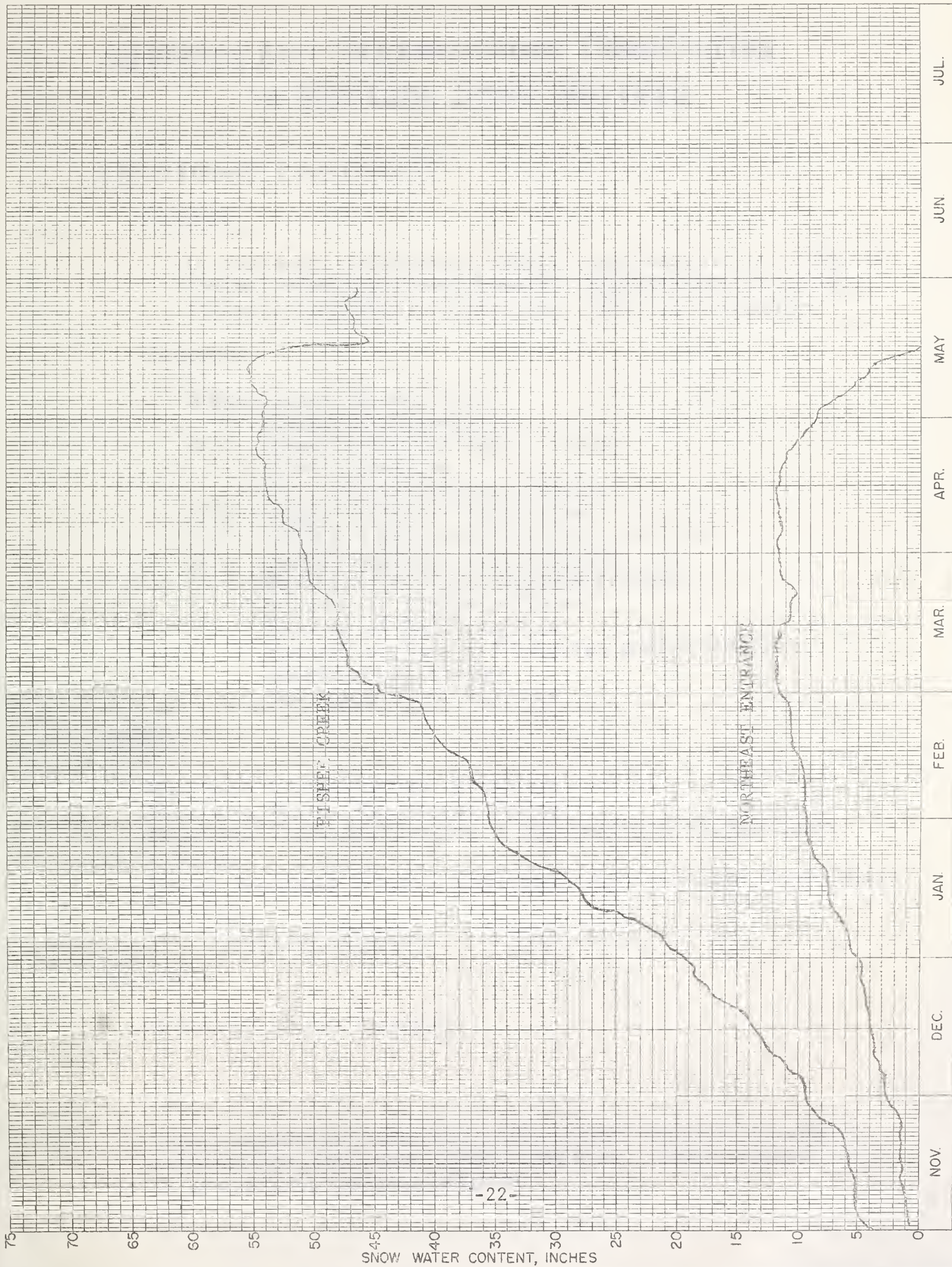
SNOW PILLow DATA
WATER YEAR 1972

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Drainage: _____

YELLOWSTONE



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U.S. Department of Commerce
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Bonneville Power Administration
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Bureau of Reclamation
Bureau of Sports Fisheries and Wildlife
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Montana Power Company

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generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*